ThinkPad L450 Platform Specifications

	Processor	4th Gener	ration I	ntel® Cor	e™ i5 or 5t	h Generati	on Inte	Core i3 / i5	/ i7 Processor	Dimensions ³	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm				
Second 1 15 16 23 16 23 16 24 24 25 16 23 26 25 25 25 25 25 25 25							Cache			Weight ²					
Security		Number	Cores	Threads	Frequency	Frequency	Oddilo	Speed							
Second S		i5-4300U			1.9 GHz	2.9 GHz	3MB			Case material					
Security		i5-5200U i5-5300U i7-5500U			2 GHz	-	3MB	DDR3L-1600	Intel HD Graphics						
Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			2				3MB			Multicard reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45),				
Camera (optional) HD720p resolution, low light sensitive, fixed focus Hol Audit properties 550 in processor and Number Hol Audit processor and Number Hol Audit processor Hol Audit process															
Addio support supports external analog monitor via Ward blapsyPort; supports external analog monitor via Ward and digital amonitor via Ward blapsyPort; supports three independent displays; Max resolution: 3840x21606 60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) Chipset Intel Soc (System on Chip) platform f16GB max/ PCG-312800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets Some: 140/ (355mm) FID (1366x768), anti-liquer, LED backlight, 220 nits, 169 aspect ratio, 500:1 contrast ratio 220 nits, 169 aspect ratio, 500:1 contrast ratio, 220 nits, 169 aspect ratio, 700:1 contrast ratio, 230 nits, 169 aspect ratio, 700:1 contrast ratio, 240 nits, 250 nit											, , , , , , , , , , , , , , , , , , , ,				
dual array microphone, combo audio/microphone jack supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays: Max resolution: 3840x21600 60Hz (DP via mDP cable); 1920x1200 e60Hz (VGA) Chipset Memory Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets Display Some: 14.0° (355mm) HD (1366x768), anti-glare, LED backlight, 220 nils, 169 aspect ratio, 5001 contrast ratio, protocontrast rati	Graphics	Intel HD (Graphic Graphic	cs 4400 c cs 5500 ii	or 5500 in p	rocessor o	nly, or Badec	n™ R5 M240	2GB memory:		dio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 /				
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) UltraNaviiiiii		supports (externa	al analog	monitor via	a VGA and					dual array microphone, combo audio/microphone jack				
Memory 16GB max* / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable know 204-pin SO-DIMM sockets		supports t Max resol	three ir Iution:	ndepende 3840x21	ent displays 60@60Hz	s; (DP via m[OP cabl	e); 1920x12	00@60Hz (VGA)	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface touchpad. multi-touch				
dual-channel capable, two 204-pin SO-DIMM sockets Some Alt (0 (355mm) http (1 (365xms)) http (1		Intel SoC	(Syste	m on Ch	ip) platform	1							password, security keyhole		
Some: 14.0" (355mm) HD (1368x768), anti-glare, LED backlight, 220 nits, 16.9 aspect ratio, 5001 contrast ratio (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16.9 aspect ratio, 5001 contrast ratio (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16.9 aspect ratio, 7001 contrast ratio, IPS	Memory							y,		ThinkEngine	Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures Intel vPro Technology				
Some 1.0" (SSTom) FHD (1920/1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 50:1 contrast ratio, IPS	Dienlay							D hacklight							
Multi-touch None Storage Some: SSD / SATA 6.0Gb/s, 2.5° wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5° wide, 7mm or 9.5mm high, removable, upgradable Some: SSHD with 8GB NAND flash memory M.2 SSID (opt) M.2 SSID (opt) M.2 SSID (state Drive (SSD), via M.2 card slot None N	Diopiay	22	20 nits.	, 16:9 ası	pect ratio, 5	00:1 contr	ast ratio			vPro (optional)					
Multi-touch None Storage Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND Iflash memory M.2 SOId State Drive (SSD), via M.2 card slot None Ethernet Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) None Ethernet Non-vPro model: Intel Ethernet Connection I218-U (Clarkville) VPro model: Intel Ethernet Connection I218-William Nindows 8.1 Pro 64-bit 1 Lenovo SUbtion Center 1 Lenovo SHAREit 1 L									nt,						
Storage Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable Some: SSD (opt) M2 Soll State Drive (SSD), with 8GB NAND flash memory M2. Soll State Drive (SSD), wis M2.2 card slot None M2. SSDI (opt) M2. Soll State Drive (SSD), wis M2.2 card slot None Wireless Wan, integrated in Wi-Fi + Bluetooth combo adapter M2 card 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M2 card 11b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless-N 7265, 2x2, Wi-Fi + Bl adapter, M.2 card 11a/b/g/n, Sierra Wireless EMA y upgradable Wireless Wan, Sierra Wireless EMA y upgradable Wireless EMA y upgradable Wireless EMA y upgradable Wireless Wan, Sierra Wireless EMA y upgradable Wireless Wan, Sierra Wireless EMA y upgradable Wireless Wan, Sierra Wireless EMA y upgradable Wireless	Multi-touch													6-cell 72\	Wh
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory M.2 SSD (opt) Optical None Ethernet Mon-vPro model: Intel Ethernet Connection 1218-U (Clarkville) None Ethernet Non-vPro model: Intel Ethernet Connection 1218-U (Clarkville) NPro model: Intel Ethernet Connection 1218-U (Clarkville) Bluetooth 1-0 wireless, integrated in Wi-Fi + Bluetooth combo adapter MLAN¹ One of the following, configurable by model: 11b/gn, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11b/gn, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ac, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ac, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card WWAN (optional) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider AC adapter 45W AC adapter of 5W AC adapter 45W AC adapter	Storage	Some: S	SD/S	ATA 6.0G	ib/s, 2.5" w	ide, 7mm h	igh, re	movable, up	gradable	,					7777
Some: SSFID with 8GB NAND flash memory M.2 SSD (opt) M.2 SOld State Drive (SSD), via M.2 card slot Optical Non-VPro model: Intel Ethernet Connection I218-V (Clarkville) VPro model: Intel Ethernet Connection I218-W (Clarkville) Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter WLAN⁴ One of the following, configurable by model: 11b/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ab/g/n, Intel Mireless-N												-		15.9 hr	r
Optical None Ethernet Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-UM (Clarkville) Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter WLAN⁴ One of the following, configurable by model: • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card • WWAN (optional) One of the following, configurable by model: • Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider Pro Device Stage • Adobe® Reader® • Skype™ • Skype™ • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider Limited warranty¹² One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery limited onsite service² • 3-year/1-yr battery limited onsite service, IWS (International Warranty Service		Some: S	SHD w	ith 8GB	NAND flash	n memory	o, Aouv	C I TOLOGUIOII	oystem .	l'	· · · · · · · · · · · · · · · · · · ·				
## Pro model: Intel Ethernet Connection I218-LM (Clarkville) ## Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter ## WLAN⁴			State	Drive (SS	SD), via M.2	2 card slot				Preload	preinstalled through downgrade Some: Windows 8.				
Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi+ Bluetooth combo adapter WLAN⁴ One of the following, configurable by model: 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi+ Bluetooth combo adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi+ BT ada	Ethernet										rights in Windows 8.1 Pro 64-bit Lenovo Solution Center				
## One of the following, configurable by model: * 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card * 11b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card * 11ac, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card * 11ac, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card * 11ac, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card * Wireless WAN upgradable * Wireless WAN, Ericsson® N5321,	Bluetooth™								nter		 Lenovo SHAREit Lenovo Companion 				
• 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11a/b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card WWAN (optional) Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider • 11b/g/n, ThinkVantage System Update • PC Device Stage • Adob® Reader® • Adob® Reader® • Maxthon Cloud Browser • Evernote • Maxthon Cloud Browser • Microsoft® Office preloaded; purchase a product key to activate • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions) Limited warranty¹² One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service² • 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)							actootii	oombo aaaj	7.01	-	ThinkVantage Product Recovery ThinkVantage Stage Possess and Recovery			System Up	pdate
* 11b/g/n, Intel Wireless-IA 7265, 2X2, Wi-Fi + Billadootin combo adapter, M.2 card * 11ab/g/n, Intel Dual Band Wireless-N 7265, 2X2, Wi-Fi + BT adapter, M.2 card * 11ac, Intel Dual Band Wireless-AC 7265, 2X2, Wi-Fi + BT adapter, M.2 card * Evernote* * Adobe® Reader® * Adobe® Reader® * Evernote* * Maxthon Cloud Browser * Skype™ * Wireless WAN upgradable * Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card * PC Device Stage * Adobe® Reader® * Maxthon Cloud Browser * Microsoft® Office preloaded; purchase a product key to activate * Norton™ Internet Security (30 days of virus definitions) * Limited warranty¹² One of the following, configurable by model: * 1-year depot repair service * 3-year/1-yr battery limited onsite service²4 * 3-year/1-yr battery limited onsite service, IWS (International Warranty Service	***	• 11b/g/n	, Think	Pad 11b/	g/n, 2x2, W	/i-Fi + Blue	tooth c	ombo adapte	er, M.2 card		 ThinkVantage System Update PC Device Stage Adobe® Reader® Evernote® Weather Channel Evernote Maxthon Cloud Browser Bing Translator 				
• 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card WWAN (optional) Wireless WAN upgradable • Wireless WAN, Ericsson® N5321, • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card • Evernote® • Skype™ • Maxthon Cloud Browser • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) Limited warranty¹² One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)															
WWAN (optional) One of the following, configurable by model: Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider **Skype™* Maxthon Cloud Browser Microsoft® Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) Limited warranty¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)															
 Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card Norton Internet Security (30 days of virus definitions) Limited warranty¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service, IWS (International Warranty Service) 	Wireless WAN upgradable]	 Skype™ Maxthon Cloud Browser Norton Studio Microsoft Office preloaded; 						
HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider Limited warranty¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)															
Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider AT&T® or Verizon® LTE (4G), contract required with service provider Limited warranty¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)		HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card												et Security	
SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider Limited warranty¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, IWS (International Warranty Service)															
 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, IWS (International Warranty Service 	SIM card (opt)								er	,					
 3-ýear/1-ýr batterý limited onsite service²⁴ 3-year/1-yr battery limited onsite service, IWS (International Warranty Service) 	c cara (opi)		. 01120	(-	,, oomaa				••	1-year depot repair service					
3-year/1-yr battery limited onsite service, IWS (International Warranty Service)															
EDEATH OLD ENERGY OF A COLUMN CALOR											• 3-year/1-yr battery limited onsite service, IWS (International Warranty Service ¹⁷)				
Environment EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant										Environment	EPEAT™ Gold; E	NERGY STAR® 6.1	GREENGUARD®;	RoHS-comp	liant